

## **ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18
Stylesheet Version v18.0

Title of Invention

METHOD AND APPARATUS FOR ADVANCING AIR INTO A FUEL REFORMER BY USE OF A TURBOCHARGER

Application Number:

10/612446

Confirmation Number:

5436

First Named Applicant: Dennis Kramer
Attorney Docket Number: 9501-72886

Search string:

(4907950).pn.

#### **US Patent Documents**

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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|------|----------|------------|------------|----------|------|-------|----------|
| TMN  | 1        | 4907950    | 1990-03-13 | Pierrat  |      |       |          |

### Signature

| Examiner Name | Date     |
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| Tu M. Nguyen  | 3/6/2004 |



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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( 6322757 or 6311232 or 6284157 or 6248684 or 6235254 or 6176078 or 6152118 or 6134882 or 6130260 or 6125629 or 6122909 or 6082102 or 6048500 or 6047543 or 6014593 or 5974791 or 5921076 or 5910097 or 5894725 or 5887554 or 5852927 or 5847353 or 5845485 or 5826548 or 5813222 or 5787864 or 5666923 or 5660602 or 5599758 or 5560890 or 5451740 or 5445841 or 5441401 or 5437250 or 5425332 or 5412946 or 5409785 or 5409784 or 5362939 or 5317996 or 5293743 or 5284503 or 5272871 or 5228529 or 5212431 or 5207185 or 5205912 or 5159900 or 5143025 or 5138959 or 5095247 or 4967118 or 4963792 or 4928227 or 4841925 or 4830492 or 4657829 or 4651524 or 4625681 or 4625511 or 4578955 or 4522894 or 4469932 or 4458634 or 4436793 or 4339564 or 4168296 or 4144444 or 4099489 or 4059416 or 4036181 or 4036131 or 3992277 or 3982962 or 3894605 or 3879680 or 3841239 or 3779182 or 3755131 or 3649195 or 3622493 or 3594609 or 3423562 or 3035205 or 3018409 or 2787730 or 6294141 or 4451441 or 4516990 or 4535588 or 4670233 or 4759918 or 4849274 or 4902487 or 5746989 or 4485621 or 6153162 or 6193942 or 6287527 or 5863413 or 4720376 or 4359862 or 4372111 or 4535588 or 4720972 or 4477417 or 4515758 or 4828807 or 4576617 or 4535588 or 6038853 or 6038854 or 6012326 or 4473622 or 4303552 or 4645521 or 20020012618 or 20020194835 ).pn.

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|   | H  | ==        | 11       | 6122909    | 2000-09-26      | Murphy et al.                           | 1    |       |          |  |  |
|   | ╠  | F         | 12       | 6082102    | 2000-07-04      | Wissler et al.                          | _    |       |          |  |  |
| N | ╠  | F         | 13       | 6048500    | 2000-04-11      | Caren et al.                            | _    |       |          |  |  |
| I | F  | H         | 14       | 6047543    | 2000-04-11      | Caren et al.                            | _    |       |          |  |  |
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|   |    | H         | 25       | 5813222    | 1998-09-29      |   | =    |       |          |  |  |
|   |    | H         | 26       | 5787864    | 1998-08-04      |   | _    |       |          |  |  |
|   |    | H         | 27       | 5666923    | 1997-09-16      |   | 4    |       |          |  |  |
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|   | ∥  | F         | 32       | 5445841    | 1995-08-2       |   | _    |       |          |  |  |
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Note: Applicant is not required to submit a paper copy of cited US Published Applications

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## Signature

| Examiner Name | Date     |
|---------------|----------|
| Tu M. Nguyen  | 3/6/2004 |

Sheet <u>1</u> of <u>8</u>

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|  | PATE         | NT AND TRADEMARK OFFIC   | E   | APPLICANT                   |  |  |                            |  |  |  |
|  |              |  |   | Dennis A. Kramer  GROUP     |  |  |                            |  |  |  |
| SUPPLEM  | ENTAL I      | NFORMATION DISCLOSURI  | = STATEMENT   | FILING DATE<br>July 2, 2003 |  | 3748   |                            |  |  |  |
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| Examiner   |              | Tu M. Nouye  | <b>1</b>  |                             |  | Date Con   | sidered<br>3/6/2004        |  |  |  |
| *EXAMINE   | R: Initia    | il if reference considered, whe citation if not in conformance | 1 14 - 41   | is in conformance wi        | th MPEP 60<br>s form with                        | 09.<br>next commun                               | ication to applican        |  |  |  |
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SERIAL NO. ATTY, DOCKET NO. 10/612.446 9501-72886 COMMERCE APPLICANT PATENT AND TRADEMARK OFFICE Dennis A. Kramer GROUP SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILING DATE 3748 July 2, 2003 U.S. PATENT DOCUMENTS Filing Date Subclass Name Class if Appropriate \*Examiner Date **Document Number** Initial BA BB BC BD ΒE BF BG вн ы ВJ BK FOREIGN PATENT DOCUMENTS Translation Subclass Class Country No Date Yes **Document Number** Х **PCT** Aug. 15, 1996 WO 96/24441A2 TMN BL Х Oct. 15, 1998 PCT WO 98/45582A1 ВМ Х Mar. 2, 1995 **PCT** WO 95/06194A1 BN Х PCT Jan. 17, 1985 WO 85/00159A1 BO X(Abstract Only) **EPO** May 20, 1992 EP 0485922A1 ΒP OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Das, "Fuel Induction Techniques for a Hydrogen Operated Engine", Int. J. of Hydrogen Energy", Vol. 15, No. BR TMN 11, pp. 833-842 (1990). DeLuchi, "Hydrogen Vehicles: An Evaluation of Fuel Storage, Performance, Safety, Environmental Implants BS and Cost", Int. J. Hydrogen Energy, Vol. 14, No. 2, pp. 81-130 (1989). Duclos et al., "Diagnostic Studies of a Pinch Plasma Accelerator", AIAA Journal, Vol. 1, No. 11, pp. 2505-ВТ Feucht et al., "Hydrogen Drive for Road Vehicles - Results from the Fleet Test Run in Berlin", Int. J. Hydrogen BU Energy, Vol. 13, No. 4, pp. 243-250 (1988) Finegold et al., "Dissociated Methanol as a Consumable Hydride for Automobiles and Gas Turbines" Proceedings of the 4<sup>th</sup> World Hydrogen Energy Conference, Vol. 3, pp. 1359-1369 (June 13-17, 1982) BV Hall et al., "Initial Studies of a New Type of Ignitor: The Railplug" - Paper 912319, pp. 1730-1746 (1991). BW Houseman et al., "Hydrogen Engines Based On Liquid Fuels, A Review", G.E., Proc., 3<sup>rd</sup> World Hydrogen BX Energy Conf., pp. 949-968 (1980). Houseman, et al., "Two Stage Combustion for Low Emissions Without Catalytic Converters", Society of Automobile Engineering Meeting, SAE Paper 760759, pp. 1-9 (October 18-22, 1976). BY Jones, et al., "Exhaust-Gas Reforming of Hydrocarbon Fuels", Society of Automotive Engineers, Paper BZ 931086, pp. 223-234 (1993). Date Considered

Tu M. Nouyen \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ATTY. DOCKET NO. 9501-72886 SERIAL NO. 10/612,446

APPLICANT Dennis A. Kramer

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| SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT |              |             |   | STATEMENT                            | Dennis A. Kramer<br>FILING DATE<br>July 2, 2003 |              | GROUP<br>3748  |  |
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| 1   | a & 1        | DL          | DE 19510804A1   | Sep. 26, 1996                        | Germany   |              |                | X(Abstract Only)                                 |
| Th  | 11/          | DM          | DE 19757936A1   | Jul. 8, 1999                         | Germany   |              |                | X(Abstract Only)                                 |
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| ļ   |              | 100         |   | O. U Ludina Author                   | r, Title, Date, Pertiner                        | nt Pages, E  | tc.)           |  |
| T   | MN           | DR          | Rabinovich et al., "Plasmatro                                     | on Internal Combus                   | stion Engine System                             | for venice   | 3 Foliation 10 | otive Engineering.                               |
|   | 1            | DS          | Scott et al., "Hydrogen Fue                                       | ll Breakthrough wit                  | (n On-Demand Gas                                |              | , 372 Adiom    | Ouvo Engineer Gi                                 |
|   | T -          | DT          | Shabalina et al., "Slag Clean                                     | ning by Use of Plas                  | ma Heaung , pp. 1-7                             | ·            | of Hydrocarbo  | ons and Production                               |
|   |              | DU          | Handbook of Thermodynam of Reducing Gases in the C-               | ic High Temperatu<br>H-O and C-H-O-N | Systems", Chapter N                             | Nine, pp. 50 | )7-547.        | Gaseous Fuels",                                  |
|   |              | DV          | Varde et al., "Reduction of                                       | Soot in Diesel Co                    | Ombusuon with Hydr                              | ogon and     |                | ety of Automotive                                |
|   | 1            | DW          | Wang et al., "Emission Co   | ontrol Cost-Ellecti                  | IVEILESS OF AIRCHINGS                           |              |                |  |
|   | T            | DX          | Wilson, "Turbine Cars", Tec                                       | hnology Review, p                    | p. 50-56 (February/M                            | larch, 1990  | i).            | - 'a Spark-Ignition                              |
|   | 1            | DY          | Kirwan et al., "Fast Start-<br>Engines", Society of Autom         | otive Engineers 20                   | JUZ WONG Congress,                              | , гарог      | • =            |  |
| -   | $\downarrow$ | DZ          | 4-7, 2002).  Kirwan et al., "Developmen Delphi Automotive Systems | nt of a Fast Start-u                 | p O Gasoline Reform                             | ner for Nea  |                |  |
|   | miner        |             | Tu M. Nguyen  |                                      |   | NOCE CO      |                | 16/2004  |

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Sheet 4 of 8 SERIAL NO. ATTY, DOCKET NO. 10/612,446 9501-72886 U.S. DEPARTMENTENDE COMMERCE PATENT AND TRADEMARK OFFICE APPLICANT Dennis A. Kramer SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 3748 July 2, 2003 U.S. PATENT DOCUMENTS Filing Date Subclass Class \*Examiner Name if Appropriate Date **Document Number** Initial DA DB DC DD DE DF DG DH DΙ DJ DK FOREIGN PATENT DOCUMENTS Translation Subclass Class Country No Date Yes **Document Number** X(Abstract Only) Germany Sep. 26, 1996 DE 19510804A1 DL TMN X(Abstract Only) Jul. 8, 1999 Germany DE 19757936A1 DM X(Abstract Only) Germany (East) Jul. 2, 1986 DD 237120A1 DN X(Abstract Only) Germany Jul. 22, 1982 DE 3048540A1 DO X(Abstract Only) United Kingdom Feb. 3, 1971 GB 1221317 DP OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Rabinovich et al., "Plasmatron Internal Combustion Engine System for Vehicle Pollution Reduction", Int. J. of DR TUN Vehicle Design, Vol. 15, Nos. 3/4/5, pp. 234-242 (1994). Scott et al., "Hydrogen Fuel Breakthrough with On-Demand Gas Generator", 372 Automotive Engineering, DS Vol. 93, No. 8, pp. 81-84 (Aug. 1985). Shabalina et al., "Slag Cleaning by Use of Plasma Heating", pp. 1-7. DT Handbook of Thermodynamic High Temperature Process Data, "Conversion of Hydrocarbons and Production DU of Reducing Gases in the C-H-O and C-H-O-N Systems", Chapter Nine, pp. 507-547. Varde et al., "Reduction of Soot in Diesel Combustion with Hydrogen and Different H/C Gaseous Fuels", DV Hydrogen Energy Progress V, pp. 1631-1639. Wang et al., "Emission Control Cost-Effectiveness of Alternative-Fuel Vehicles", Society of Automotive DW Engineers, Paper 931786, pp. 91-122 (1993). Wilson, "Turbine Cars", Technology Review, pp. 50-56 (February/March, 1995). DX Kirwan et al., "Fast Start-Up On-Board Gasoline Reformer for Near Zero Emissions in Spark-Ignition Engines", Society of Automotive Engineers 2002 World Congress, Paper No. 2002-01-1011, 14 pgs. (March DY Kirwan et al., "Development of a Fast Start-up O Gasoline Reformer for Near Zero Spark-Ignition Engines", DZ Delphi Automotive Systems, pp. 1-21 (2001). Date Considered 3/6/2004 Examiner M. Nouyen Tu

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Sheet <u>5</u> of <u>8</u>

| TO COMMEDCE  |   |  |                                    | ATTY, DOCKET NO.<br>9501-72886 |              | SERIAL NO.<br>10/612,446                |                                    |  |
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| TMN  | EL  | GB 355210  | Feb. 17, 1930                      | United Kingdom                 |              |   | X                                  |  |
|  | EM  | GB 2241746A  | Sep. 11, 1991                      | United Kingdom                 |              |   |                                    |  |
|  | EN  | JP 05231242A2  | Sept. 7, 1993                      | Japan                          | <del> </del> |   | X(Abstract Only)                   |  |
|  | EO  | JP 07292372A2  | Nov. 7, 1995                       | Japan                          |              |   | X(Abstract Only)                   |  |
| 4  | EP  | JP 02121300A2  | May 9, 1990                        | Japan                          |              |   | X(Abstract Only)                   |  |
|  |   | OTHER REFERENCES   | (Including Author                  | , Title, Date, Pertiner        | he o E1 2    | c.)                                     | 2 1999).                           |  |
| TMN  | Chandler, "Device May Spark Clean-Running Cars", The Boston Globe, p. E1, 2 pgs. (July 12, 1999). |  |                                    |                                |              |   |                                    |  |
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|  | ET  | Shelef et al., "Twenty-five Years after Introduction of Automotive Catalysts: What Next?" Catalysis Today 62, pp. 35-50 (2000).  |                                    |                                |              |   |                                    |  |
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|  | ļ   | Stokes et al., "A Gasoline Engine Concept for Improved Facilities Educational Falls Fuels and Lubricants Meeting and Exposition, SAE Technical Paper Series, 14 pgs. (October 16-19, 2000).  |                                    |                                |              |   |                                    |  |
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|  | EV  | Tachtler et al., "Fuel Cell Auxiliary Power Unit - Innovation for the Electric Supply of Passenger Cars?", Society of Automotive Engineers, Paper No. 2000-01-0374, pp. 109-117 (2000).  Bromberg et al., "Experimental Evaluation of SI Engine Operation Supplemented by Hydrogen Rich Gas from |                                    |                                |              |   |                                    |  |
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|  | ,   | a Compact Plasma Boosted I<br>Center Report, JA-99-32, 9 p   | ketormer", Massa<br>gs. (1999).    | chuseus msutute of             | Germology    | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                    |  |
|  | EX  | Bromberg et al., "Compact Plasmatron-Boosted Hydrogen Generation Technology for Vehicular Applications",   |                                    |                                |              |   |                                    |  |
| Examiner   |   | Int. J. of Hydrogen Energy 24, pp 341-350 (1999).  |                                    |                                |              |   |                                    |  |
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| TMN  | FL         | JP 5127630 A2  | May 25, 1993   | Japan                       |                                      |               | X(Abstract Only)       |  |
| 1  | FM         | SU 1519762A1   | Nov. 7, 1989   | Soviet Union                |                                      |               | X(Abstract Only)       |  |
|  | FN         | GB 1014498   | Dec. 31, 1965  | United Kingdom              |                                      |               | X                      |  |
|  | FO         | GB 2188559A  | Oct. 7, 1987   | United Kingdom              |                                      |               | X                      |  |
| <b>V</b>   | FP         | DE 3337903A1   | May 9, 1985  | Germany                     |                                      |               | <u> </u>               |  |
|  |            | OTHER REFERENCES   | (Including Author  | , Title, Date, Pertinen     | t Pages, Et                          | c.)           | 1-4 1 -4               |  |
| TMN  | FR         | Bromberg et al., "Emissions Reductions Using Hydrogen from Plasmatron Fuel Converters", Int. J. of   |  |                             |                                      |               |                        |  |
| 1  | FS         | Burch et al., "An Investigation of the NO/H <sub>2</sub> /O <sub>2</sub> Reaction on Noble-Metal Catalysts at Low Temperatures   |  |                             |                                      |               |                        |  |
|  | FT         | Costa et al. "An Investigation of the NO/H <sub>2</sub> /O <sub>2</sub> (Lean De-No <sub>x</sub> ) Reaction on a Highly Active and Selective   |  |                             |                                      |               |                        |  |
|  | FU         | Pt/La <sub>0.7</sub> Sr <sub>0.2</sub> Ce <sub>0.1</sub> FeO <sub>3</sub> Catalyst at Low Temperatures", Catalysis 209, pp. 456-471 (2002).  Frank et al., "Kinetics and Mechanism of the Reduction of Nitric Oxides by H <sub>2</sub> Under Lean-Burn Conditions on |  |                             |                                      |               |                        |  |
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|  | FV         | Gore, "Hydrogen A Go-Go", D  | Gore, "Hydrogen A Go-Go", Discover, pp. 92-93, (July, 1999). |                             |                                      |               |                        |  |
|  | FW         | Koebel et al., "Selective Catalytic Reduction of NO and NO <sub>2</sub> at Low Temperatures", Catalysis Today 73, pp. 239-247 (2002).  |  |                             |                                      |               |                        |  |
| 4  | FX         | Nanba et al., "Product Analys of Catalysis 211, pp. 53-63 (2   | is of Selective Ca<br>2002).                                 | talytic Reduction of N      | O <sub>2</sub> with C <sub>2</sub> l | ⊣₄ Over H-Fe  | rnerite", Journal      |  |
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| TMN   | GL        | EP 0382434A2   | Aug. 16, 1990                   | EPO   |                        |                          | X                          |
| 1   | GM        | GB 2188559A  | Oct. 7, 1987                    | United Kingdom                              |                        | <u> </u>                 | X                          |
|   | GN        | WO 96/27078A1  | Sept. 6, 1996                   | PCT   | ļ                      |                          | X                          |
|   | GO        | JP 54-74419  | June 12, 1979                   | Japan                                       |                        |                          |                            |
| V   | GP        | JP 9079024A2   | March 25, 1997                  | Japan                                       | 18                     | <u></u>                  | X(Abstract Only)           |
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|   | НВ         |   |                       |                                |             |                                       |  |
|   | HC         |   |                       |                                |             |                                       |  |
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|   |            | Document Number   | Date                  | Country                        | Class       | Subclass                              | Translation<br>Yes No                    |
| TMN   | HL         | DE 19927518A1   | Jan. 18, 2001         | Germany                        |             |                                       | X(Abstract Only)                         |
| TMN   | НМ         | EP 1057998A1  | May 5, 2000           | EPO                            |             |                                       | X(Abstract Only)                         |
| TMN   | HN         | JP 3-195305   | Aug. 26, 1991         | Japan                          |             |                                       | X(Abstract Only)                         |
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|   | HP         |   |                       |                                |             |                                       |  |
|   |            | OTHER REFERENCES  | (Including Author     | r, Title, Date, Pertiner       | nt Pages, E | tc.)                                  |  |
|   | HR         |   |                       |                                |             |                                       |  |
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| Examiner                                      | <u> </u>   | 10 60-1110  |                       |                                |             | Date Cons                             | sidered                                  |
|   | D. Initial | Tu M. Nayuyu<br>if reference considered, whether                      | ar ar not sitution is | s in conformance with          | MPEP 609    | 9                                     | 3/6/2004                                 |
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